Volume C

Revised 29 Dec 2016

SUPPLEMENT TO STANDARD OPERATION AND MAINTENANCE MANUAL

LOWER SAN JOAQUIN RIVER AND TRIBUTARIES PROJECT, CALIFORNIA

UNIT NO. 1

RIGHT BANK LEVEE OF SAN JOAQUIN RIVER AND FRENCH CAMP SLOUGH WITHIN RECLAMATION DISTRICT NO. 404

U. S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
SACRAMENTO, CALIFORNIA

CORPS OF ENGINEERS
U. S. ARMY

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SACRAMENTO DISTRICT
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March 1963

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LOCATION	ADDITION OR REVISION	DATE
1-04	Add subparagraph a	24 May 2011
Exhibit B	Add drawing no. 7-4-1853	24 May 2011
Exhibit F	Add copy of letter of transfer dated 26 Jan 2001	24 May 2011
Exhibit F	Add copy of letter of transfer dated 29 Nov 2016	29 Dec 2016

SUPPLEMENT TO STANDARD
OPERATION AND MAINTENANCE MANUAL
SAN JOAQUIN RIVER & TRIBUTARIES PROJECT

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AND FRENCH CAMP SLOUGH
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D	Suggested Check List No. 1 - Levee Inspection Report (Contained in Standard Manual)	Unattached
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F	Letter of Acceptance by the State Reclamation Board	Sheets 1 and 2
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SECTION I

INTRODUCTION

1-01. Location. The improvement covered by this manual is that part of the Lower San Joaquin River and Tributaries Project that lies along the right bank of the San Joaquin River from French Camp Slough to the Stockton Deep Water Ship Channel. Also that part of the right bank levee of French Camp Slough that extends from the French Camp Road to the junction of French Camp Slough with the San Joaquin River. Location by levee mileage for R.D. 404; Unit No. 1 starts at the junction of the San Joaquin River with the Stockton Deep Water Ship Channel (Mile 0.0); thence upstream along the right bank of the San Joaquin River 2.30 miles to the junction of French Camp Slouth; Unit No. 2 starts at said junction (Mile 0.0); thence upstream along the right bank of French Camp Slough 1.76 miles to the French Camp Road. The area is located within Reclamation District No. 404 in the County of San Joaquin, California and in the general vicinity as shown on the Location Map, EXHIBIT A-1.

1-02. Project Works. The project works covered by this manual is a part of the Lower San Joaquin River and Tributaries Project as authorized by the Flood Control Act of 22 December 1944, Public Law 534, 78th Congress, 2nd Session, Section 10 and consists of the right bank levee and channel of the San Joaquin River from the Stockton Deep Water Ship Channel to French Camp Slough and the right bank levee and channel of French Camp Slough from the San Joaquin River to the French Camp Road, a total distance of about 4.06 miles.

1-03. Protection Provided. Levees along the right bank of the San Joaquin River and French Camp Slough, as described in this unit, provide direct protection to about 2,000 acres of agricultural, industrial and residential lands within Reclamation District No. 404. Along the right bank of the San Joaquin River the grade of the adopted flood plane profile varies from elevation 7.5 at the Stockton Deep Water Ship Channel to elevation 11.0 at the junction of French Camp Slough. Along the right bank of French Camp Slough the grade of the adopted flood plane profile is level at elevation 11.0 from the San Joaquin River to the French Camp Road. All elevations are referred to mean sea level datum (1929 adjustment). Levee

Grades within this unit provide for a freeboard of at least 3 feet above the adopted flood plane profile. Within this unit the project design flood for the San Joaquin River is 18,000 cubic feet per second and 2,000 cubic feet per second for French Camp Slough.

1-04. Construction Data and Contractor. Construction required by the Corps of Engineers to bring levees of this unit to project standards to perform repair work to locally built levees was accomplished under Contract No. DA-04-167-CIVENG-62-54 by M. Malfitano & Son, Inc., during the period from 26 March 1962 to 10 January 1963. Specification No. 2697 Drawing No. 7-4-1621.

a. Emergency levee repairs at various locations on the right bank of the San Joaquin River was completed on 24 September 1997 by Cal Inc., contractor, under Contract No. DACW05-97-C-0120. Specification No. 9870E, Drawing No. 7-4-1853.

1-05. Flood Flows. For purposes of this manual, the term "flood" or "high water period" shall refer to flows when the water surface reaches or exceeds a reading of 9.0 on the U.S.C. & G.S. continuous water stage recorder and staff gage located at the head of the Stockton Deep Water Channel at McLeod Lake in the City of Stockton. .

1-06. Assurances Provided by Local Interests. Assurance of cooperation by local interests is provided by State legislation as contained in Chapters 1 & 2, part 4, Division 5 of the State Water Code (See paragraph 2-02a of the Standard Manual).

1-07. Acceptance by the State Reclamation Board. Responsibility for operating and maintaining this unit was officially accepted by the State Reclamation Board by letter dated 3 January 1963, as shown on the attached letter, EXHIBIT F.

1-08. Inspection Procedure. Since the enactment by State Legislation of Chapter 1528, Statutes of 1947, the Department of Water Resources, State of California, has made semi-annual inspections of all levees of authorized flood control projects in the Sacramento-San Joaquin drainage basin pursuant to the Federal Regulations of 16 August 1944 (Title 33), and reports its findings to the local agency, the State Reclamation Board and the Sacramento District, Corps of Engineers, U.S. Army. This activity, initiated pursuant to section 208.10(a) of the Federal Regulations, has in effect provided for transfer from the local agencies to the State Department of Water Resources the obligation of compliance with Sections 8371, 8372, and 8373 of the Water Code of the State of California. These sections of the Code require the local responsible agencies to submit a report to the State Department of Water Resources on or before 1 June of each year on the condition of the levees within their jurisdiction. Supervisory powers and duties of the Department are applicable to all works of the Lower San Joaquin River and Tributaries Flood Control Project maintained and operated by the local agencies without regard to status of completion, or expenditure of Federal funds on the construction of such works.

The following procedure is used in inspecting the levees of the responsible maintaining agency:

Personnel of the State Department of Water Resources make a detailed inspection in the spring and fall of each year and make a report on any required maintenance. The inspection objectives are to determine if the following items, which are a condensation of Federal Regulations, are being adhered to:

a. That all brush, trees and wild growth other than sod are removed from the levee crown and slopes.

b. That all weeds, grass and debris on the levee have been burned during the appropriate season, where not dangerous or impractical.

c. That all grass and weeds on the levee have been mowed where removal by burning is dangerous or impracticable. This applies only on peat levees or where burning would constitute a hazard to improvements.

d. That all burrowing animals have been exterminated.

e. That all caves, sloughs, burrows, holes, slips or other damaged portions of the levee have been repaired.

f. That all irrigation and drainage structures through the levee are in good working condition.

g. That no revetment work or riprap have been displaced, washed out or removed.

h. That the crown of the levee is well shaped and maintained and that unauthorized vehicular travel is restricted.

i. That stock grazing on the levee is restricted to conditions and seasons when the levee would not be seriously scarred or otherwise damaged thereby.

j. That encroachments are not being erected on the levee which would hinder travel by authorized patrol vehicles.

k. Prevent the erection of structures on, additions to, or alterations of, the levee unless authorized by permit from the State Reclamation Board.

Following this detailed inspection a joint field inspection is made with representatives of the responsible maintaining agency and the State Department of Water Resources to review and discuss the inspection report.

Upon completion of the fall inspection the State Department of Water Resources publishes an annual report entitled, "Status of Project Levee Maintenance" which indicates the degree of proficiency attained by each obligated local agency in providing required maintenance.

SECTION II

FEATURES OF THE PROJECT SUBJECT TO FLOOD CONTROL REGULATIONS

2-01. Levees.

a. The described levee in this manual lies along the east side of the San Joaquin River and the north side of French Camp Slough and extends for a total distance of about 4.06 miles. The levee has been surfaced for patrol road purposes with a crown width of 12 feet. The necessary turnouts, turnarounds and road approaches were also included in the work. For more complete detail in construction of the above-mentioned levee, refer to the "As Constructed" drawings of EXHIBIT B.

b. For pertinent Requirements of the Code of Federal Regulations and other requirements see the following:

(1) Maintenance-paragraph 4-02 of the Standard Manual.

(2) Suggested Check Lists - EXHIBIT E of this Supplement Manual.

(3) Operation-paragraph 4-04 of the Standard Manual.

(4) Special Instructions-paragraph 4-05 of the Standard Manual.

2-02. Drainage and Irrigation Structures.

a. Description. Drainage and irrigation structures which extend through the levee are listed as follows:

Levee Mile	Size of Pipe	Other Description	Feet Below Crown
	Unit No. 1 - East Levee of San Joaquin River		
0.25	42" CMP	Flapgate W.S.	10.0
0.68	8" Steel	Valve W.S.	3.0
0.78	42" CMP	Pumphouse L.S.	18.0
1.11	-	Sewage outfall pipe	18.0
1.12	4" Steel	Valve and pump W.S.	8.0
1.43	4" Steel	-	5.0
1.43	36"	Control valves both sides	20.0
1.63	12"	Siphon breaker W.S.	5.5
1.67	6"	-	5.0
1.67	12"	Siphon breaker W.S.	5.0
1.70	12"	Pumphouse W.S.	5.0
1.76	12"	Valve W.S.	3.0
2.20	6" Steel	-	6.0

Levee Mile	Size of Pipe	Other Description	Feet Below Crown
	Unit No. 2 - North Levee of French Camp Slough		
0.22	8"	-	-
0.78	12"		5.0
1.75	1-14"		
	2-16"	Pumphouse L. S.	4.0

NOTE ON ABBREVIATIONS: W.S. = Waterside
L.S. = Landside
CMP = Corrugated Metal Pipe

b. For pertinent Requirements of the Code of Federal Regulations and other requirements, see the following:

(1) Maintenance-paragraph 5-02 of the Standard Manual.

(2) Suggested Check Lists - EXHIBIT E of this Supplement Manual.

(3) Operation-paragraph 5-04 of the Standard Manual.

(4) Additional Requirements-paragraph 5-05 of the Standard Manual.

(5) Safety Requirements-paragraph 5-06 of the Standard Manual.

2-03. Channels. _

a. Description. The main channels and floodways of the San Joaquin River and French Camp Slough for this unit lie adjacent to the levees as described in paragraph 1-02. The project design capacities of said channels are as listed in paragraph 1-03 of this manual.

b. For pertinent Requirements of the Code of Federal Regulations and other requirements, see the following:

(1) Maintenance-paragraph 6-02 of the Standard Manual.

(2) Suggested Check Lists - EXHIBIT E of this Supplement Manual.

(3) Operation-paragraph 6-04 of the Standard Manual.

(4) Safety Requirements-paragraph 6-05 of Standard Manual.

It shall be the duty of the local agency responsible for maintenance to keep in contact with the State Department of Water Resources' Flood

Operation Center during all periods of flood danger, and maintain a patrol of the project works in their area during periods of flood in excess of a reading of 9.0 on the gage located at the head of the Stockton Deep Water Ship Channel at McLeod Lake in the City of Stockton.

The Flood Operation Center is responsible for Data Collection and issuance of a joint river forecast with the U. S. Weather Bureau and coordinates with the Sacramento District Engineer, and other agencies to keep appraised of the current situation in accordance with terms of the Memorandum of Understanding dated 1 November 1956, between the Division Engineer, U. S. Army Engineer Division, South Pacific, and the Director, Department of Water Resources, State of California for cooperative action during flood emergencies.

2-04. Miscellaneous Facilities.

a. Description. Miscellaneous structures or facilities which were constructed as a part of, or in conjunction with, the protective works, and which might affect their functioning, include the following:

(1) Utility Relocation. Because of the nature of the construction of structures by local interests, records of utility relocations are not available.

(2) Hydrologic Facilities. Hydrologic facilities provided in the vicinity of this unit consists of the U.S.C. & G.S. continuous water stage recorded and staff gage located at the head of the Stockton Deep Water Ship Channel at McLeod Lake in the City of Stockton.

(3) Bridges.

(a) The A.T. & S.F. Railroad bridge crossing the San Joaquin River at levee mile 0.80.

(b) State Highway Bridge No. 4 crossing the San Joaquin River at levee mile 1.58.

(c) The French Camp Turnpike Bridge crossing French Camp Slough at the upper end of this unit at levee mile 1.76.

b. For pertinent Requirements of the Code of Federal Regulations and other requirements, see the following:

(1) Maintenance-paragraph 7-02 of the Standard Manual.

(2) Suggested Check Lists-paragraph 7-03 of the Standard Manual.

(3) Operation-paragraph 7-04 of the Standard Manual.

SECTION III

REPAIR OF DAMAGE TO PROJECT WORKS AND METHODS OF COMBATING FLOOD CONDITIONS

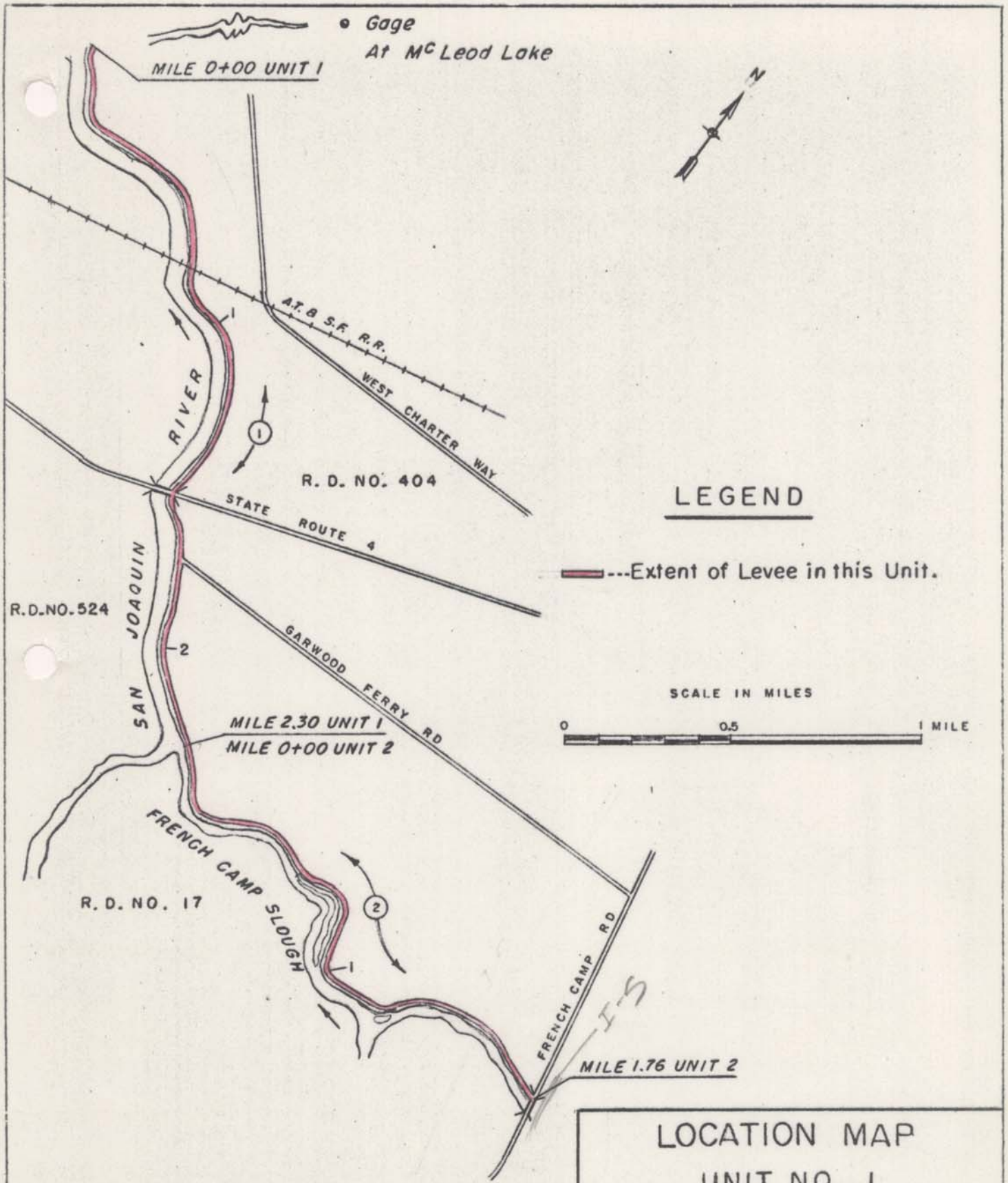
3-01. Repair of Damage. In the event of serious damage to the project works, whether due to flood conditions or other causes, and which may be beyond the capability of local interests to repair, the local agency responsible for maintenance will contact a representative of the Department of Water Resources, State of California, who coordinates maintenance of project works of the Lower San Joaquin River and Tributaries Flood Control Project. The State representative will give assistance or advise, or will determine appropriate action to be taken.

3-02. Applicable Methods of Combating Floods. For applicable methods of combating flood conditions, reference is made to Section VIII of the Standard Operation and Maintenance Manual where the subject is fully covered.

EXHIBIT A

FEDERAL FLOOD CONTROL REGULATIONS

(SEE STANDARD MANUAL)



LOCATION MAP

UNIT NO. 1

RIGHT BANK OF SAN JOAQUIN RIVER
AND FRENCH CAMP SLOUGH
WITHIN R.D. NO. 404

EXHIBIT A-1

EXHIBIT B

"AS CONSTRUCTED"
DRAWINGS

(See separate folder for the following drawings:)

File No.	Title
7-4-1621	Stone Protection from Head of Old River to Stockton Deep Water Channel, sheet 30.
7-4-1853	Emergency Levee Repairs, Reclamation District 404, San Joaquin County, in 4 Sheets.

EXHIBIT C

PLATES OF SUGGESTED FLOOD FIGHTING METHODS

(SEE STANDARD MANUAL)

EXHIBIT C
Unattached

EXHIBIT D

SUGGESTED CHECK LIST NO. 1

LEVEE INSPECTION REPORT

(SEE STANDARD MANUAL)

EXHIBIT E

SUGGESTED CHECK LISTS OF LEVEES, CHANNEL AND STRUCTURES

For definition of "flood" or "high water period", see paragraph 1-05 of this manual.

SUGGESTED CHECK LIST NO. 2
UNIT NO. 1
SAN JOAQUIN RIVER

Inspector's Report Sheet No. _____ Inspector _____

Date _____ Superintendent _____

Item	Remarks
(a) Location by Station	
(b) Settlement, sloughing, or loss of grade	
(c) Erosion of both levee slopes	
(d) Condition of roadways, including ramps	
(e) Evidence of seepage	
(f) Condition of farm gates and fencing	
(g) Maintenance measures taken since last inspection	
(h) Comments	

Instructions for Completing Sheet 2, EXHIBIT E
(To be printed on back of Sheet 2)

Item (a) Indicate levee station of observation, obtained by pacing from nearest reference point; indicate right or left bank.

Item (b) If sufficient settlement of earthwork has taken place to be noticeable by visual observation, indicate amount of settlement in tenths of a foot. If sloughing has caused a change in slope of the embankment sections, determine the new slope. Note areas where erosion or gullying of the section has occurred.

Item (c) If sufficient erosion or gullying of back face of back toe of levee has taken place to be noticeable by visual inspection, indicate area affected and depth.

Item (d) Note any natural change in any section of roadway or ramps. Indicate any inadequacy in surface drainage system.

Item (e) Indicate any evidence of seepage through the embankment section.

Item (f) Indicate the serviceability of all farm gates across the embankments and roadway, and indicate if repainting is required.

Item (g) Indicate maintenance measures that have been performed since last inspection and their condition at the time of this inspection.

Item (h) Record opinion, if any, of contributory causes for conditions observed and also any observations not covered under other columns.

NOTE: One copy of the Inspector's Report is to be mailed to the District Engineer immediately on completion, and one copy is to be attached to and submitted with the Superintendent's semi-annual report.

SUGGESTED CHECK LIST NO. 3
CHANNEL AND RIGHT-OF-WAY
UNIT NO. 1
SAN JOAQUIN RIVER

Inspector's Report Sheet No. _____ Inspector _____

Date _____ Superintendent _____

Item	Remarks
(a) Name of Channel and Location by Stations	
(b) Vegetal growth in channel	
(c) Debris and refuse in channel	
(d) New construction within right-of-way	
(e) Extent of a aggradation or degradation	
(f) Condition or riprapped section	
(g) Condition of bridges	
(h) Measures taken since last inspection	
(i) Comments	

Instructions for Completing Sheet 4, EXHIBIT E
(To be printed on back of Sheet 4)

Item (a) Indicate Station of observation obtained by pacing from nearest reference point.

Item (b) Note nature, extent, and size of vegetal growth within the limits of flood flow channel.

Item (c) Note nature and extent of debris and refuse that might cause clogging of the conduits of the irrigation intake works, fouling of the tainter gates, or the bridges over the channel.

Item (d) Report any construction along the diversion channel or above the diversion channel or above the diversion works that has come to the attention of the inspector and that might affect the functioning of the project.

Item (e) Indicate any change in grade or alignment of the channels, either by deposition or sediment or scour, that is noticeable by visual inspection. Estimate amount and extent.

Item (f) Indicate any change that has taken place in the riprap such as disintegration of the rock, erosion, or movement of the rock. Note the presence of vegetal growth through the riprap.

Item (g) Note any damage or settlement of the footings of the bridges. Indicate condition of wooden structures and if repainting is required. Indicate condition of bridge approaches, headwalls, and other appurtenances.

Item (h) Indicate maintenance measures that have been performed since the last inspection and their condition at time of this inspection.

Item (i) Record opinion, if any, of contributory causes for conditions observed, also any observations not covered under other columns.

NOTE: One copy of the inspector's Report is to be mailed to the District Engineer immediately on completion and one copy is to be attached to and submitted with the Superintendent's semi-annual report.

SUGGESTED CHECK LIST NO. 4
DRAINAGE AND IRRIGATION STRUCTURES
UNIT NO. 1
SAN JOAQUIN RIVER

Inspector's Report Sheet No. _____ Inspector _____

Date _____ Superintendent _____

(a) Levee Mile	(b) Bank	(c) Debris or other obstruction to flow	(d) Damage of settlement of pipe or conduit	(e) Condition of concrete headwall or invert paving	(f) Condition of right-of-way adjacent to structure	(g) Repair Measures taken since last inspection	(h) Comments
			Unit No. 1 - East Levee of San Joaquin River				
0.25	Right						
0.68	"						
0.78	"						
1.11	"						
1.12	"						
1.43	"						
1.43	"						
1.63	"						
1.67	"						
1.67	"						

EXHIBIT E
Sheet 6 of 8

CHECK LIST NO. 4

DRAINAGE AND IRRIGATION STRUCTURES

UNIT NO. 1

SAN JOAQUIN RIVER

Inspector's Report Sheet No. _____ Inspector _____

Date _____ Superintendent _____

(a) Location by Levee Mileage	(b) Bank	(c) Debris or other obstruction to flow	(d) Damage or settlement of pipe or conduit	(e) Condition of concrete headwall or invert paving	(f) Condition of right-of-way adjacent to structure	(g) Repair Measures taken since last inspection	(h) Comments
Unit No. 1 - East Levee of San Joaquin River, Cont'd.							
1.70	Right						
1.76	"						
1.75	"						
Unit No. 2 - North Levee of French Camp Slough							
0.22	Right						
0.78	"						
1.75	"						

EXHIBIT E
Sheet 7 of 8

Instructions for Completing Sheet 6 & 7, EXHIBIT E
(To be printed on back of Sheets 6 & 7)

(1) Enter station of all structures under Column (a) for check list.

(2) Inspect inlet, barrel, and outlet for accumulation of sediment, rubbish, and vegetal matter. Note condition under Column (c).

(3) If any settlement or damage to the pipe, barrel, or invert of the drain has occurred, estimate the location and amount. Note particularly if any backfill has come into the pipe or been disturbed. Record observations under Column (d).

(4) Inspect the concrete portions of the structures for evidence of settlement, cracks, "pop-outs", spaces, abrasive wear, or other deterioration. Record conditions under Column (e).

(5) Inspect backfill area adjacent to structure for evidence of erosion caused by overflow of the drainage structure and note conditions in Column (f).

(6) Under Column (g) indicate physical measures that have been taken to correct conditions reported in last inspection, and their condition at time of this inspection.

(7) Under Column (h) record opinion, if any, of contributory causes for conditions observed, also any observations not covered under other columns.

(8) A copy of the Inspector's Report is to be mailed to the District Engineer immediately on completion, and a record copy shall be attached to the Superintendent's semi-annual report.

EXHIBIT F

LETTER OF ACCEPTANCE BY

THE STATE RECLAMATION BOARD

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO CA 95814-2922

NOV 29 2016

Ms. Leslie M. Gallagher
Executive Officer
Central Valley Flood Protection Board
3310 El Camino Avenue, Room 151
Sacramento, CA 95821

Dear Ms. Gallagher:

The purpose of this letter is to notify the Central Valley Flood Protection Board of the completion of an effort to update the Operation and Maintenance Manual Supplements for the Sacramento River Flood Control Project and the Lower San Joaquin River Levees and Lower San Joaquin River and Tributaries Project. These updates are a compilation of revisions made to the project over time and where we had record of a transfer letter to the Board. These updated supplements are the most current version and should be utilized as the baseline version for any future project modifications.

This process and the compiled updates have been coordinated with the Central Valley Flood Protection Board and Department of Water Resources staffs for review and comment. All comments have been addressed or incorporated into the manuals.

The Board staff has been provided a copy of the manuals in electronic format. Future updates will include entire unit supplements so updates can be seen in context with the entire unit supplement. The list of completed supplements, by the unit number and title, are attached. If you have any questions regarding this transmittal, please contact Gary Kamei at 916-557-6845.

Sincerely,

David G. Ray, P.E.
Colonel, U.S. Army
District Commander

Enclosures

Standard O&M Manual Sacramento River Flood Control Project	
Unit No.	**Project Name**
101	RD 341 Sherman Island
102	E. Levee of Sac River, Isleton to Threemile Slough & N. Levee of Threemile Slough from Sac River to SJ River
103	Both Levees of Georgiana Slough & E. Levee of Sac River from Walnut Grove to Isleton
104	Levees around Grand Island
105	Levees Around Reyer Island
106	S. Levee Lindsey Slough & W. Levee of Yolo BP from Lindsey Slough to Watson Hollow and N. Levee of Watson Hollow Drain
107	Levees Around Hastings Tract
108	Levees Around Peters Tract
109	West Levee of Yolo Bypass & E. Levee of Cache Slough
110	Levees Around Sutter Island
111	E. Levee of Sac River from Freeport to Walnut Grove
112	Levees Around Merritt Island
113	E. Levee Yolo Bypass, N. Levee Miner Slough, W. Levees Sutter Slough, Elkhorn Slough & Sac River, All Bordering RD 999
114	W. Levee of Sac River from Northern Boundary of RD 765 to Southern Boundary of RD 307
115	E. Levee of Sac River from Sutterville Rd to Northern Boundary of RD 744
116	W. Levee of Sac River from Sac Weir to Mi 51.2 & S. Levee of Sac Bypass & E. Levee of Yolo Bypass from Sac Bypass to Southern Boundary of RD 900
117	E. Levee Sac River through City of Sac from Tower Bridge to Sutterville Rd
118.1	E. Levee of Sac River from American River to Tower Bridge & S. Levee of American River from Mayhews Downstream to Sac River
118.2	N. Levee American River, E. Levee Natomas Canal, Both Levees Arcade Creek, S. Levee Linda Creek, & Magpie Creek Diversion Channel
118.2 Sup	Vegetation on Mitigation Sites E. Levee of Sac River from American River to Tower Bridge & S. Levee of American River from Mayhews Downstream to Sac River
119	Putah Creek Channel & Levees & W. Levee of Yolo Bypass from Yolo Causeway Downstream 3 mi. Includes O&M manual for the Yolo Basin wetlands, and South Fork Putah Creek Preserve Restoration Section 1135 Authorization.
120	Relocated Willow Slough Channel & Levees & W. Levee Yolo Bypass from mouth of Relocated Willow Slough to Yolo Causeway
121	R. Levee of Yolo Bypass from Willow Slough Bypass to Woodland Rd RD2035
122.1	W. Levee of Sac River from Mi 70.8 to Sac Weir & N. Levee of Sac Bypass & E. Levee of Yolo Bypass from Woodland Hwy to Sac Bypass
123	W. Levee of Sac River from East End of Fremont Weir to Mi 70.8 & E. Levee of Yolo Bypass from East End Fremont Weir to Woodland Hwy RD 1600

124	N. Levee of American River from Natomas E. Canal to Sac River & E. Levee of Sac River from Natomas Cross Canal to American River. Includes supplement, Vegetation on Mitigation Sites.
125	Back Levee of RD 1000
126	Cache Creek Levees & Settling Basin Yolo Bypass to High Ground
127	Knights Landing Ridge Cut & Sac River & Yolo BP Levees of RD's 730 and 819 & S. Levee of Sycamore Slough
128	E. Levee of Sac River from Sutter Bypass to Tisdale Weir all within RD 1500
129	S. Levee of Tisdale By-Pass from E. Levee Sac River to W. Levee Sutter BP & W. Levee of Sutter BP Downstream to E. Levee of Sac River
130	W. Levee Sac River from Sycamore Slough to Wilkins Slough (Mi. 89.9 to Mi. 117.8)
131	W. Levee Sac River from Wilkins Slough to Colusa (Mi. 117.8 to Mi. 143.5)
132	Back Levees of RD 108
133	E. Levee of Sac River from Winship School to Tisdale BP & N. Levee of Tisdale BP & W. Levee of Sutter BP from Long Bridge to Tisdale BP
134	Levees of RD 70, E. Levee of Sac River from Butte Slough Outfall Gates to Winship School & W. Levee of Sutter BP from Butte Slough Outfall Gates to Long Bridge
135	E. Levee of Sutter BP from Sutter Buttes Southerly to Junction with Feather River & E. & W. Levees of Wadsworth Canal & Levee of Intercepting Canals
136	E. Levee of Sac River from Butte Slough Outfall Gates to the Princeton-Afton Rd (Mi. 138.3 to Mi. 164.4)
137	W. Levee of Sac River from North End of Princeton Warehouse to Colusa Bridge
138	E. Levee of Sac River from Parrott-Grant Line to Princeton-Afton Rd
139	W. Levee of Sac River from N. Boundary of LD 2 to North End of Princeton Warehouse
140	W. Levee of Sac River in LD 1 (Mi. 170.5 to Mi. 184.7). Includes mitigation site O&M manual, Yuba County
141.1	E. Levee of Feather River from Bear River to Natomas CC & S. Levee of Bear River & Both Levees of Yankee Slough. Parts 1 and 2
141.2	E. Levee of Feather River from Bear River to Natomas CC & S. Levee of Bear River & Both Levees of Yankee Slough. Parts 1 and 2
142	Back Levee of RD 1001
143	W. Levee of Feather River from North Boundary of RD 823 to E. Levee of Sutter Bypass
144	W. Levee of Feather River from North Boundary of LD 1 to North Boundary of RD 823
145	E. Levee of Feather River, S. Levee of Yuba River, Both Levees of WPRR Intercepting Channel, W. Levee of South Dry Creek & N. Levee of Bear River
146	N. Levee of Bear River & S. Levee of South Dry Creek RD 817 & Vicinity of Wheatland
147	Levee Around the City of Marysville & N. Levee of Yuba River to a Point 1.8 Mi. Upstream from Marysville

148	W. Levee of Feather River from North Boundary of RD 777 to North Boundary of LD 1
149	S. Levee of Yuba River Maintenance Area No. 8
151	E. Levee Feather River from Honcut Creek to Marysville & S. Levee of Honcut Creek & E. Levee of RD 10
152	W. Levee of Feather River from N. Boundary of RD 777 to Western Canal Intake (Levee of Drainage District No. 1)
153	Lower Butte Creek Channel Improvement, Colusa, Glenn & Butte Counties
154	Moulton Weir & Training Levee Sacramento River
155	Colusa Weir & Training Levee Sacramento River
156	Tisdale Weir & Bypass
157	Fremont Weir, Sacramento River
158	Sacramento Weir, Sacramento River
159	Pumping Plants No. 1, 2 & 3, Sutter Bypass
160	Sutter Butte Canal Headgate
161	Butte Slough Outfall Gates
162	Knights Landing Outfall Gates, Sacramento River

Standard O&M Manual San Joaquin River	
Unit No.	**Project Name**
1	Right Bank Levee of the San Joaquin River & French Camp Slough within RD 404
2	Right Bank Levee of the San Joaquin River & French Camp Slough within RD 17
3	North Levee of Stanislaus River & East Levee of the San Joaquin River within RD 2064, 2075, 2094 and 2096
4	East Levee of San Joaquin River within RD 2031
5	East Levee of the San Joaquin River Within RD No. 2092
6	East Levee of the San Joaquin River in RD Nos. 2063 & 2091
7	West Levee of San Joaquin River & North Levee of Old River RD Nos. 524 & 544
8	Right Banks of Old River & Salmon Slough Within RD No. 1 & RD No. 2089
9	Levees Around RD No. 2062 & San Joaquin County Flood Control District Area No.2
10	West Levee of Paradise Cut RD No. 2058 & SJ County Flood Control District, Area No.2
11	West Levee of San Joaquin River from Durham Bridge to Paradise Dam Within RD No. 2085 & 2095
12	West Levee of San Joaquin River From Opposite Mouth of Tuolumne River Downstream to Stanislaus County Line Within RD Nos. 2099, 2100, 2101, & 2102
13	West Levee of the San Joaquin River in RD No. 1602

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THE RECLAMATION BOARD
of the
STATE OF CALIFORNIA

January 3, 1963

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District Engineer
Corps of Engineers
U. S. Army
P. O. Box 1739
Sacramento, California

Dear Sir:

Reference is made to your letter of December 14, 1962 concerning transfer to the State of California of bank protection, levee enlargement, and access and patrol road construction, right and left banks San Joaquin River from Head Old River to Stockton Deep Water Channel.

This improvement consisted of the following work:

a. Levee enlargement and bank protection:

Levee Unit No.	Site No.	River Mile Points	Right or Left Bank
48	1	41.30 to 41.38	Left
49	8	42.75 to 42.97	Left
50	11, 12 & 13	44.19 to 44.68	Left
51	16	45.16 to 45.28	Left
52	17	45.56 to 45.75	Left
53	19	45.81 to 45.88	Left
54	20	45.87 to 45.99	Right
55	21	46.24 to 46.36	Right
56	22	46.32 to 46.50	Left
57	23	47.02 to 47.20	Right
58	24	47.14 to 47.32	Left
59	25	47.38 to 47.50	Left
60	26	47.48 to 47.67	Right
61	27	48.06 to 48.21	Left
62	28 & 29	48.53 to 48.89	Left
63	29 (Ext)	48.91 to 49.02	Left
64	31	50.25 to 50.42	Right
65	33	50.99 to 51.14	Left
66	37	52.97 to 53.12	Left

EXHIBIT F
Sheet 1 of 2

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b. Access roads: Shaping and gravel surfacing of access roads, right bank San Joaquin River at Sites Nos. 1, 4, 6 and 26; and left bank at Sites Nos. 3, 5, 8, 9, 14, 17 and 23.

c. Patrol roads: Shaping and gravel surfacing of patrol roads, right bank San Joaquin River at Sites Nos. A-1, B-1, C-1, D-1, E-1, F-1, G-1, H-1, I-1, J-1, K-1, L-1, M-1 (included on portion of French Camp Slough), N-1 (included on portion of Walker Slough) and O-1; and Left Bank at Sites Nos. A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, and V.

The Reclamation Board at its meeting of January 3, 1963 formally accepted the above-referred-to levee and bank protection work for operation and maintenance.

Sincerely yours,

/s/A. E. McCollam
A. E. McCOLLAM
General Engineer

EXHIBIT F
Sheet 2 of 2

DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, SACRAMENTO
CORPS OF ENGINEERS
1325 J STREET
SACRAMENTO, CALIFORNIA 95814-2922

REPLY TO
ATTENTION OF
Navigation and Flood Control Unit

26 JAN 01

Mr. Peter D. Rabbon, General Manager
The Reclamation Board
State of California
1416 9th Street, Room 1601
Sacramento, California 95814

Dear Mr. Rabbon:

This letter is to transfer a portion of work on the right bank of the San Joaquin River to the State of California for operation and maintenance as follows:

(a) WATERSIDE: SITE 1: L.M. 0.1-STATION B 2+40
SITE 2: L.M. 0.4-STATION B 3+08
SITE 3: L.M. 0.61-STATION B 1+14
SITE 4: L.M. 0.71-STATION B 1+65
SITE 7: L.M. 2.13-STATION B 2+44

(b) WATERSIDE: Unit 1: L.M 1.27-STATION 0+60

(c) WATERSIDE: L.M 1.6-STATION 1+99

(d) WATERSIDE: SITE 11A: L.M. 0.34-STATION B 3+93, and
WATERSIDE: SITE 11C: L.M. 0.49-STATION B 1+90, in RD 404 SJ3,

The work consisted of restoring the right waterside bank of the San Joaquin River damaged by the January 1997 Flood. Concrete rubble was removed from Site 1 through 7 (Unit 1) at L.M. 0.1, 0.4, 0.61, 0.71, and 2.13 (see paragraph (a) above). Woody debris was removed and rockfill placed at L.M. 1.27 (Unit 1, see paragraph (b) above). Stone protection was provided along the gullied embankment at L.M. 1.6 (see paragraph (c) above). Rock was placed at sites L.M. 0.34 (Site 11A) and 0.49 (Site 11C) (see paragraph (d) above). The work as listed in the enclosure was completed on September 24, 1997, in accordance with Specification No. 9870E, Drawing File No.7-4-1853, Contract No. DACW05-97-C-0120.

The work was performed under the general authority of 33 U.S.C. 701n (69 Stat. 186) PL 84-99 and now meets the requirements of the San Joaquin River (RD 404). Therefore, said flood control work, together with the waterway banks contiguous thereto, are transferred as of the date of this letter to the State of California for operation and maintenance.

Unit 1

This portion of the project work will be added by amendment to the Operation and Maintenance Manual, San Joaquin River Flood Control Project that is being transferred under separate cover.

Sincerely,

Michael J. Walsh
Colonel, Corps of Engineers
District Engineer

Enclosures

cc:
CESPK-CO
CESPK-CO-E
CESPK-ED
CESPK-ED-D
CESPK-PM
CESPK-CO-RV

Unit 1

EXHIBIT G

SUGGESTED SEMI-ANNUAL REPORT FORM

TO: The District Engineer
Sacramento District
Corps of Engineers
650 Capitol Avenue
Sacramento, California

(1 May 19 __)
(1 Nov 19 __)

Dear Sir:

The semi-annual report for the period (1 May 19 __ to 31 October 19 __) (1 November 19 __ to 30 April 19 __) Unit No. 1 of the San Joaquin River and Tributaries Project is as follows:

a. The physical condition of the protective works is indicated by the inspector's report, copies of which are inclosed, and may be summarized as follows:

(Superintendent's summary of conditions)

It is our intention to perform the following maintenance work in order to repair or correct the conditions indicated:

(Outline the anticipated maintenance operations for the following 6 months).

b. During this report period, major high water periods (Water level at 9.0 on the gage at McLeod Lake) occurred on the following dates:

Dates	Maximum Elevation
_____	_____
_____	_____
_____	_____

EXHIBIT G
Sheet 1 of 2

Comments on the behavior of the protective works during such high water periods are as follows:

(Superintendent's log of flood observations)

During the high water stages when the water level reached a height of _____, on the gage or excess thereof (dates) _____, it was necessary to organize and carry out flood operations as follows:

(See Maintenance Manual _____.)

c. The inspections have indicated (no) or (the following) encroachments or trespasses upon the project right-of-way.

d. (No) (_____) permits have been issued for (the following) improvements or construction within the project right-of-way.

Executed copies of the permit documents issued are transmitted for your files.

e. The status of maintenance measures, indicated in the previous semi-annual report as being required or as suggested by the representatives of the District Engineer, is as follows:

(Statement of maintenance operations, item by item with percent completion.)

f. The fiscal statement of the Superintendent's operations for the current report period is as follows:

	Labor	Material	Equipment	Overhead	Total
1. Inspection					
2. Maintenance					
3. Flood Fighting Operations					
TOTAL					

Respectfully submitted,

_____
Superintendent of Works

EXHIBIT G
Sheet 2 of 2